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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/021,450	12/13/2001	David E. Halasz	72255/13066	2167

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EXAMINER

POLTORAK, PIOTR

ART UNIT	PAPER NUMBER
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2134

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/021,450

Applicant(s)

HALASZ ET AL.

Examiner

Peter Poltorak

Art Unit

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/13/2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-18 have been examined.

Drawings

2. The drawings are objected to because in regard to Fig. 1 the specification address "an exemplary wireless network 10" but no object 10 is shown in Fig. 1.
3. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. The article "a" preceding the word "using" in claim 3 is unnecessary.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. Claims 1-4, 6, 8, 10-13, 15 and 17 are rejected under 35 U.S.C. 102(a) as being anticipated by *Ichikawa et al.* (U.S. Patent No. 6307837).
6. *Ichikawa et al.* teach a wireless LAN (VLAN subnets, Fig. 1 and col. 7 lines 1-5) with the VLAN terminals and a table associating a subnet with a broadcast key (*Table 3 col. 12*).
Furthermore *Ichikawa et al.* teach VLAN keys that are encryption keys shared by all terminals that have the same VLAN-ID (col. 12 lines 10-15). The VLAN keys allow encrypted data broadcast to all the wireless terminals using the same VLAN (col. 14 lines 3-7). The above reads on claims 2-3 and 6 and inherently renders the limitations of claim 1 anticipated.
7. Col. 24 lines 33-36 read on claim 8.
8. Claims 10-13, 15 and 17 are substantially equivalent to claims 1-4, 6 and 8; therefore claims 10-13, 15 and 17 are similarly rejected.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 5 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Ichikawa et al.* (U.S. Patent No. 6307837) in view of *Johnson et al.* (U.S. Pub. No. 20010014088).

10. *Ichikawa et al.* teach a wireless LAN as discussed above.

Ichikawa et al. do not explicitly teach that the wireless LAN operates in accordance with the IEEE 802.11 standard.

Johnson et al. teach wireless LAN operates in accordance with the IEEE 802.11 standard (*Johnson et al.*, col. 1 lines [4]).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to operate *Ichikawa et al.*'s wireless in accordance with the IEEE 802.11 as taught by *Johnson et al.* One of ordinary skill in the art would have been motivated to perform such a modification in order to minimize data packet collisions (*Johnson et al.*, col. 1 lines [4]).

11. Claims 7, 9, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Ichikawa et al.* (U.S. Patent No. 6307837) in view of *Ke et al.* (U.S. Pub. No. 20030041266).

12. *Ichikawa et al.* teach mobile IP VLANs as discussed above.

Ichikawa et al. do not explicitly teach a step of tagging data to which subnet the data belongs.

Ke et al. teach tagging (*Ke et al.* [34]).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to tag data to which subnet the data belongs as taught by *Ke et al.* One of


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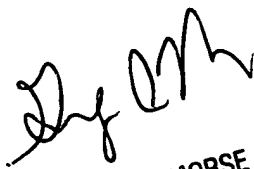
ordinary skill in the art would have been motivated to perform such a modification in order to allow traffic to be mapped into a particular VLAN (*Ke et al. [34]*).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Poltorak whose telephone number is (571)272-3840. The examiner can normally be reached Monday through Thursday from 9:00 a.m. to 4:00 p.m. and alternate Fridays from 9:00 a.m. to 3:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (571) 272-3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Signature
5/23/15


GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100